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1 July 1990, Number 1

Editorials

- Are Corticosteroids Beneficial as Adjunctive Therapy for *Pneumocystis* Pneumonia in AIDS? 1
J.A. Kovacs and H. Masur

Because exuberant host inflammatory responses may play a role in clinical deterioration, adjuvant treatment with anti-inflammatory agents such as corticosteroids may be beneficial. Initiating treatment with corticosteroids for patients with *Pneumocystis carinii* pneumonia who present with hypoxia is reasonable pending the report of other randomized studies.

- Molecular Genetic Advances in Chronic Myelogenous Leukemia 3
D.E. Epner and H.P. Koeffler

Understanding of the pathogenesis and classification of chronic myelogenous leukemia is improving rapidly as a result of rapid advances in the field of molecular genetics. Polymerase chain reaction should become a common means of diagnosing chronic myelogenous leukemia and detecting minimal residual disease after therapy.

- New Editors for *Annals of Internal Medicine* 6
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The American College of Physicians has appointed Drs. Robert and Suzanne Fletcher as Editors of *Annals of Internal Medicine*. The Fletchers have extensive backgrounds in internal medicine and epidemiology.

- A Transition 6
R.H. Fletcher and S.W. Fletcher

This issue is the first from the new Editors of *Annals of Internal Medicine*; they are the sixth Editors since *Annals* was established in 1927. The editors intend to preserve the many strengths and main traditions of *Annals*. But times change, as do editors, and journals should change with them.

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- Diagnosis of Deep-Vein Thrombosis Using an Objective Doppler Method 9
A.W. Lensing, M.M. Levi, H.R. Büller, P. Prandoni, M. Vigo, G. Agnelli, L. Lupatelli, M.V. Huisman, and J.W. ten Cate

The objective Doppler method is an accurate, reproducible, and simple way to detect venous thrombosis in symptomatic outpatients.

- Corticosteroids Prevent Early Deterioration in Patients with Moderately Severe *Pneumocystis carinii* Pneumonia and the Acquired Immunodeficiency Syndrome (AIDS) 14
J.S. Montaner, L.M. Lawson, N. Levitt, A. Belzberg, M.T. Schechter, and J. Ruedy

A prospective, double-blind, placebo-controlled, randomized trial showed that oral corticosteroids prevent early deterioration and increase exercise tolerance in patients with moderately severe AIDS-related *Pneumocystis carinii* pneumonia.

- Erythromycin for Persistent or Recurrent Nongonococcal Urethritis: A Randomized, Placebo-Controlled Trial 21
T.M. Hooton, E.S. Wong, R.C. Barnes, P.L. Roberts, and W.E. Stamm

A 3-week regimen of erythromycin was more effective than placebo in improving symptoms and reducing pyuria in men with persistent or recurrent nongonococcal urethritis, especially among men with prostatic inflammation.

- Low Risk for Hepatitis C in Hemophiliacs Given a High-Purity, Pasteurized Factor VIII Concentrate 27
P.M. Mannucci, K. Schimpf, D.B. Brettler, N. Ciavarella, M. Colombo, F. Haschke, K. Lechner, J. Lusher, G. Weissbach, and the International Study Group

A prospective study conducted in previously untransfused hemophiliacs who were highly susceptible to developing post-transfusion hepatitis showed that a large-pool clotting factor concentrate treated with pasteurization carries a low risk for transmitting hepatitis C virus, the major cause of post-transfusion hepatitis.

- Thoracic Radiotherapy Does Not Prolong Survival in Patients with Locally Advanced, Unresectable Non-Small Cell Lung Cancer 33
D.H. Johnson, L.H. Einhorn, A. Bartolucci, R. Birch, G. Omura, C.A. Perez, and F.A. Greco

The survival of patients with locally advanced non-small cell lung cancer treated with single-agent vindesine was compared with that of patients treated with thoracic radiotherapy or both treatment modalities. These patients gain no clinically meaningful survival advantage with immediate thoracic irradiation, even when modern megavoltage radiation therapy techniques and equipment are used.

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- Neurofibromatosis 1 (Recklinghausen Disease) 39
and Neurofibromatosis 2 (Bilateral Acoustic
Neurofibromatosis): An Update
*J.J. Mulvihill, D.M. Parry, J.L. Sherman,
A. Pikus, M.I. Kaiser-Kupfer, and R. Eldridge*

The neurofibromatoses comprise at least two autosomal dominant disorders affecting an estimated 100 000 Americans with clinical manifestations that may require care from every type of clinician. Neurofibromatosis 1 and 2 are distinctly different clinical disorders and disease genes are on different chromosomes. Magnetic resonance imaging has generally supplanted other techniques for visualizing brain, spinal, and other neural tumors in both disorders. Progress in the clinical delineation of the disorders has been matched with considerable research into their still obscure pathogenesis. Watchful waiting may often be the best management for acoustic neuromas in neurofibromatosis 2.

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- Use of Ambulatory Electrocardiographic (Holter) 53
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J.P. DiMarco and J.T. Philbrick

Day-to-day variability of arrhythmia and myocardial ischemia detected by ambulatory electrocardiographic monitoring may be considerable in an individual patient. Caution must be used in interpreting serial tests. Monitoring can provide diagnostic, prognostic, and therapeutic information in many situations, but similar information often may be better obtained in other ways.

Academia and Clinic

- More Informative Abstracts Revisited 69
*R.B. Haynes, C.D. Mulrow, E.J. Huth,
D.G. Altman, and M.J. Gardner*

Several medical journals provide more informative abstracts ("structured abstracts") for articles of clinical interest. This article reviews the feasibility, acceptability, and dissemination of structured abstracts, reassesses the underlying strategy, and describes modifications of the approach. This innovation can aid communication from scientists to clinicians, and other clinical journals are invited to join this effort.

Position Paper

- Ambulatory Electrocardiographic (Holter) 77
Monitoring
American College of Physicians

Ambulatory electrocardiographic monitoring, a technique that permits recording and analysis for prolonged periods during normal activities, is only rarely indicated as a routine "procedure of choice."

Brief Reports

- Mollusk Shell Hypersensitivity Pneumonitis 80
*R. Orriols, J.M. Manresa, J.L. Aliaga,
R. Codina, M.J. Rodrigo, and F. Morell*

Two patients exposed to the dust of sea-snail shells developed hypersensitivity pneumonitis. The manufacture of nacre buttons is an occupational hazard that may be associated with this disease.

- Bay Leaf Impaction in the Esophagus and 82
Hypopharynx
*S.K. Buto, T-K. Tsang, G.W. Sielaff,
L.L. Gutstein, and M.S. Meiselman*

Five patients had bay leaves, which are commonly used in cooking, caught in their esophagus and hypopharynx, necessitating endoscopic dislodgment.

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Editorials

- Tuberculosis Control and the AIDS Epidemic in Developing Countries 89
A.E. Pitchenik

With the advent of the AIDS epidemic, increased funds, resources, proven technologies, and drugs from developed countries must be strategically allocated for tuberculosis control in developing countries.

- Transesophageal Echocardiography: A New View of the Heart 91
E.A. Fisher and M.E. Goldman

There has been resurgent interest in using transesophageal echocardiography for general cardiology. The procedure may be indicated whenever the routine transthoracic echocardiographic study is inadequate for clinical decision making; however, proper training is necessary to maximize its value.

Articles

- Hormone Replacement Therapy and the Risk for First Hip Fracture: A Prospective, Population-based Cohort Study 95
T. Naessén, I. Persson, H.O. Adami, R. Bergström, and L. Bergkvist

Treatment with potent estrogens, both alone and possibly when combined with progestogens, reduces the risk for cervical and trochanteric hip fractures within the first decade after menopause.

- Adenosine for Paroxysmal Supraventricular Tachycardia: Dose Ranging and Comparison with Verapamil. Assessment in Placebo-Controlled, Multicenter Trials 104
J.P. DiMarco, W. Miles, M. Akhtar, S. Milstein, A.D. Sharma, E. Platia, B. McGovern, M.M. Scheinman, W.C. Givier, and The Adenosine for PSVT Study Group

Adenosine rapidly and effectively terminates acute episodes of paroxysmal supraventricular tachycardia in which the atrioventricular node is an integral part of the re-entrant circuit. Its overall efficacy is similar to that of verapamil but its onset of action is more rapid.

- Toxicity of Combined Ganciclovir and Zidovudine for Cytomegalovirus Disease Associated with AIDS: An AIDS Clinical Trials Group Study 111
H. Hochster, D. Dieterich, S. Bozzette, R.C. Reichman, J.D. Connor, L. Liebes, R.L. Sonke, S.A. Spector, F. Valentine, C. Pettinelli, and D.D. Richman

The combination of zidovudine and ganciclovir is poorly tolerated in patients with AIDS and serious cytomegalovirus disease.

- Smoking Cessation after Acute Myocardial Infarction: Effects of a Nurse-Managed intervention 118
C.B. Taylor, N. Houston-Miller, J.D. Killen, and R.F. Debusk

A nurse-managed smoking cessation intervention significantly reduced smoking rates at 12 months in patients who had had a myocardial infarction.

- The Clinical Spectrum of the Eosinophilia-Myalgia Syndrome Associated with L-Tryptophan Ingestion: Clinical Features in 20 Patients and Aspects of Pathophysiology 124
R.W. Martin, J. Duffy, A.G. Engel, J.T. Lie, C.A. Bowles, T.P. Moyer, and G.C. Gleich

In this group of patients, no relation was apparent between dose or duration of L-tryptophan exposure and the eosinophilia-myalgia syndrome. Immunofluorescence showed major basic protein deposited outside of eosinophils in affected tissues, indicating that toxic granule proteins are released in diseased organs.

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The efficacy of three treatments for intermittent claudication—pentoxifylline, exercise programs, and smoking cessation—is discussed.

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- A Clinician's Guide to Cost-Effectiveness Analysis 147
A.S. Detsky and I.G. Naglie

Cost-effectiveness analysis can be used to help set priorities for funding health care programs; because clinicians should participate in policy making, they must understand the role of this technique.

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- Body Fluid Volume Regulation in Health and Disease: A Unifying Hypothesis 155
R.W. Schrier

Body fluid volume regulation involves dynamic interaction between cardiac output and peripheral arterial vasodilation. In this context, neither total extracellular fluid volume nor blood volume are determinants of renal sodium and water excretion.

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- Therapeutic Substitution and Formulary Systems 160
American College of Physicians

The American College of Physicians believes that therapeutic substitution is appropriate only in hospitals with an effectively functioning formulary system and Pharmacy and Therapeutics Committee and may be acceptable in ambulatory settings that meet comparable standards.

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- Successful Outpatient Treatment of Gallstones with Piezoelectric Lithotripsy 164
M.B. Albert, H. Fromm, R. Borstelmann, C.M. Shehan, and R. Gicking

Symptomatic cholelithiasis can be treated with lithotripsy and ursodiol safely in outpatients without anesthesia, analgesia, or sedation.

- Pancreatic Carcinoma as a Cause of Unexplained Pancreatitis: Report of Ten Cases 166
A. Lin and E.R. Feller

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Editorials

- Fluconazole, a New Antifungal Agent 177
J.N. Galgiani

The efficacy of fluconazole, a bis-triazole antifungal agent recently released for the treatment of cryptococcosis and candidal infections, has been established for cryptococcal meningitis in patients with the acquired immunodeficiency syndrome but whether it is equivalent to therapy with amphotericin B for all such patients is not clear.

- Pharmacoepidemiology: Current Status, Prospects, and Problems 179
B.L. Strom and P. Tugwell

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Articles

- Fluconazole Compared with Amphotericin B plus Flucytosine for Cryptococcal Meningitis in AIDS: A Randomized Trial 183
R.A. Larsen, M.A.E. Leal, and L.S. Chan

Amphotericin B used with flucytosine has superior mycologic and clinical efficacy compared with fluconazole for the treatment of cryptococcal meningitis in patients with the acquired immunodeficiency syndrome.

- Quality-of-Life Changes and Hearing Impairment: A Randomized Trial 188
C.D. Mulrow, C. Aguilar, J.E. Endicott, M.R. Tuley, R. Velez, W.S. Charlip, M.C. Rhodes, J.A. Hill, and L.A. DeNino

Hearing loss is associated with important adverse effects on the quality of life of elderly persons, effects that are reversible with hearing aids.

- Inhaled or Intravenous Pentamidine Therapy for *Pneumocystis carinii* Pneumonia in AIDS: A Randomized Trial 195
G.W. Soo Hoo, Z. Mohsenifar, and R.D. Meyer

Inhaled pentamidine is probably as effective as intravenous pentamidine in patients with mild pneumocystis pneumonia. However, its use as sole therapy in patients with moderate to severe pneumocystis pneumonia is not supported by the results of this study and is not warranted.

- Intravenous or Inhaled Pentamidine for Treating *Pneumocystis carinii* Pneumonia in AIDS: A Randomized Trial 203
J.E. Conte, Jr., D. Chernoff, D.W. Feigal, Jr., P. Joseph, C. McDonald, and J.A. Golden

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- Labetalol Hepatotoxicity 210
J.A. Clark, H.J. Zimmerman, and L.A. Tanner

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- Screening for Cervical Cancer 214
D.M. Eddy

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NIH Conference

- Septic Shock in Humans: Advances in the Understanding of Pathogenesis, Cardiovascular Dysfunction, and Therapy 227

J.E. Parrillo, M.M. Parker, C. Natanson, A.F. Suffredini, R.L. Danner, R.E. Cunnion, and F.P. Ognibene

Septic shock, the commonest cause of death in intensive care units, should be treated with antibiotics, critical care monitoring, aggressive volume resuscitation, and, if shock continues, inotropic agents and vasopressors.

Academia and Clinic

- National Study of Internal Medicine Manpower: XVII. Changes in the Characteristics of Internal Medicine Residents and Their Training Programs, 1988-1989 243

R.M. Andersen, C. Lyttle, C.H. Kohrman, G.S. Levey, K. Neymarc, and C. Schmidt

Survey results from internal medicine program directors show an increase in the number of residency positions offered in internal medicine and the number of residents in internal medicine programs. Training issues of concern continue to be the provision of ambulatory and primary care experiences and the scheduling of nights on call.

Brief Reports

- Left Ventricular Performance and Clinical Outcome after Repeat Balloon Aortic Valvuloplasty 250

C.J. Davidson, J.K. Harrison, M.E. Leithe, K.B. Kisslo, and T.M. Bashore

Repeat balloon aortic valvuloplasty results in hemodynamic changes similar to those of the initial procedure, even when larger balloon diameters are used. Mortality in patients requiring the repeat procedure is approximately 50% within a mean of 2 months.

- Concurrent Human and Canine Histoplasmosis from Cutting Decayed Wood 252

S.F. Davies and R.L. Colbert

A 53-year-old man developed acute pulmonary histoplasmosis after cutting decayed wood. The patient's dog also developed histoplasmosis. Simultaneous infection in man and dog greatly narrowed the differential diagnosis of pneumonia for each.

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- Injury Prevention in Primary Care 261
S.R. Lowenstein and D. Hunt

Injuries are the fourth leading cause of death for persons from birth to 45 years of age. Routine alcoholism screening; counseling about safety belt use; specific advice to avoid drinking and driving; and screening for medical and environmental fall risks in elderly persons are strategies recommended to help prevent injuries.

- Photopheresis and Human Immunodeficiency Virus (HIV) Infection: The *Annals* Views Preliminary Reports 263
E. Abrutyn

A preliminary report showing a beneficial effect of extracorporeal photopheresis in patients with the acquired immunodeficiency syndrome-related complex is discussed. *Annals* should publish early promising reports that are novel, innovative, distinctive, or unique, and potentially important.

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The Editors are seeking a deputy editor to work full time in the Philadelphia office.

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 Overtreated with L-Thyroxine
G.M. Stall, S. Harris, L.J. Sokoll, and B. Dawson-Hughes

Thyroxine-treated women with low thyrotropin (TSH) levels lose bone mineral from the spine more rapidly than do women without known thyroid disease. These patients are therefore at increased risk for osteoporosis.

- Extracorporeal Photopheresis in the Treatment of AIDS-Related Complex: A Pilot Study 270
E. Bisaccia, C. Berger, and A.S. Klainer

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- Development of Non-Hodgkin Lymphoma in a Cohort of Patients with Severe Human Immunodeficiency Virus (HIV) Infection on Long-Term Antiretroviral Therapy 276
J.M. Pluda, R. Yarchoan, E.S. Jaffe, I.M. Feuerstein, D. Solomon, S.M. Steinberg, K.M. Wyvill, A. Raubitschek, D. Katz, and S. Broder

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- Early "Step-Down" Transfer of Low-Risk Patients with Chest Pain: A Controlled Interventional Trial 283
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- Blood Culture Phlebotomy: Switching Needles Does Not Prevent Contamination 290
H.M. Krumholz, S. Cummings, and M. York

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- Transference Phenomena in Medical Practice: Being Whom the Patient Needs 293
W. M. Zinn

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- Do Corticosteroids Reduce Mortality from Alcoholic Hepatitis? A Meta-analysis of the Randomized Trials 299
T. F. Imperiale and A. J. McCullough

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- The Value of Assessing Falls in an Elderly Population: A Randomized Clinical Trial 308
L.Z. Rubenstein, A.S. Robbins, K.R. Josephson, B.L. Schulman, and D. Osterweil

The study suggests that falls are a marker of underlying disorders easily identifiable by a careful postfall assessment; identification can reduce disability and costs.

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- Medical Authorship: Traditions, Trends, and Tribulations 317
W.B. Fye

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- Mortality from *Plasmodium falciparum* Malaria in Travelers from the United States, 1959 to 1987 326
A.E. Greenberg and H.O. Lobel

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- Cyclosporine and Itraconazole Interaction in Heart and Lung Transplant Recipients 327
M.R. Kramer, S.E. Marshall, D.W. Denning, A.M. Keogh, R.M. Tucker, J.N. Galgiani, N.J. Lewiston, D.A. Stevens, and J. Theodore

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- Urban Angina, Urban Arrhythmias: 337
Carbon Monoxide and the Heart
S.M. Walden and S.O. Gottlieb

In this issue, Sheps and colleagues indicate that carbon monoxide exposure induces more frequent and complex ventricular arrhythmias in patients with coronary artery disease. Clinicians should be aware of the cardiac risks associated with exposure to carbon monoxide; tighter restrictions and enforcement of ambient limits of carbon monoxide should be considered.

- Screening for Colorectal Cancer: Need for 338
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J.H. Bond

In this issue, Eddy uses mathematic modeling to estimate the effect of screening for colorectal cancer on mortality. This approach may be helpful to the practicing physician, but some of the assumptions Eddy uses are very uncertain, and his conclusions may therefore be inaccurate. Validation of these conclusions by prospective controlled trials is critical.

- Bone Marrow Transplantation: 340
What Is the Question?
N.J. Chao and K.G. Blume

Patients who are in first remission of acute lymphoblastic leukemia should have bone marrow transplantation while in their first complete remission.

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- Production of Arrhythmias by Elevated 343
Carboxyhemoglobin in Patients with
Coronary Artery Disease
*D.S. Sheps, M.C. Herbst, A.L. Hinderliter,
K.F. Adams, L.G. Ekelund, J.J. O'Neil,
G.M. Goldstein, P.A. Bromberg, J.L. Dalton,
M.N. Ballenger, S.M. Davis, and G.G. Koch*

The number and complexity of ventricular arrhythmias increases significantly during exercise after carbon monoxide exposure producing 6% carboxyhemoglobin compared with room air but not after exposure producing 4% carboxyhemoglobin.

- Outcome of Renal Crisis in Systemic Sclerosis: 352
Relation to Availability of Angiotensin Converting
Enzyme (ACE) Inhibitors
*V.D. Steen, J.P. Costantino, A.P. Shapiro, and
T.A. Medsger, Jr.*

Improved survival and successful discontinuation of dialysis are possible when ACE inhibitors are used in the treatment of scleroderma renal crisis.

- Treatment of Disseminated *Mycobacterium avium* 358
Complex Infection in AIDS with Amikacin,
Ethambutol, Rifampin, and Ciprofloxacin
*J. Chiu, J. Nussbaum, S. Bozzette, J.G. Tilles,
L.S. Young, J. Leedom, P.N.R. Heseltine,
J.A. McCutchan, and The California
Collaborative Treatment Group*

Results show that mycobacterial load and systemic symptoms in patients with AIDS and disseminated *M. avium* complex infection can be effectively reduced by a regimen containing amikacin, ethambutol, rifampin, and ciprofloxacin.

- Multicentric Angiofollicular Lymph Node 362
Hyperplasia with Peripheral Neuropathy,
Pseudotumor Cerebri, IgA Dysproteinemia, and
Thrombocytosis in Women: A Distinct Syndrome
*J.M. Feigert, D.L. Sweet, M. Coleman,
D. Variakojis, N. Wisch, J. Schulman,
and M.H. Markowitz*

Four women with multicentric angiofollicular lymph node hyperplasia had a distinct clinical syndrome characterized by peripheral neuropathy, pseudotumor cerebri, IgA dysproteinemia, and thrombocytosis. This clinical syndrome may represent a distinct variant of the disease, and it requires close observation for neoplastic transformation and other complications of its multi-system nature.

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Human T-Lymphotropic Virus (HTLV I-II) Infection among Patients in an Inner-City Emergency Department <i>G.D. Kelen, T.A. DiGiovanna, L. Lofy, E. Jenkins, A. Stein, K.T. Sivertson, M. Lairmore, and T.C. Quinn</i>	368
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Infection with HTLV I-II may be more prevalent among certain segments of the population than previously realized and appears to have a different demographic distribution than HIV-1 infection. Although HTLV I-II may represent no social risk to health care providers, adherence to universal precautions should minimize the risk.

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The Protean Manifestations of Hemorrhagic Fever with Renal Syndrome: A Retrospective Review of 26 Cases from Korea <i>P. Bruno, L.H. Hassell, J. Brown, W. Tanner, and A. Lau</i>	385
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Academia and Clinic

Procedural Skills of Practicing Nephrologists: A National Survey of 700 Members of the American College of Physicians <i>T.G. Tape, R.S. Wigton, L.L. Blank, and J.A. Nicolas</i>	392
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More attention should be focused on training and certifying practicing nephrologists in procedures learned after formal fellowship training.

History of Medicine

The Origin and Growth of Medical Journals <i>C.C. Booth</i>	398
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Specialization in physiology, pathology, and the clinical disciplines led to the development of specialist journals, which have come to dominate contemporary medical literature. Nevertheless, general journals continue to flourish.

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- Practicing Health Promotion: The Doctor's Dilemma 419
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- Survival of Outpatients with Alzheimer-type Dementia 429
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- Is Hepatitis C Virus Involved in Hepatitis-Associated Aplastic Anemia? 435
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- Increasing Viral Burden in CD4+ T Cells from Patients with Human Immunodeficiency Virus (HIV) Infection Reflects Rapidly Progressive Immunosuppression and Clinical Disease 438
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- Small Intestinal Injury and Parasitic Diseases in AIDS 444
D.P. Kotler, A. Francisco, F. Clayton, J.V. Scholes, and J.M. Orenstein

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- The Systemic Capillary Leak Syndrome: Appearance of Interleukin-2-Receptor-Positive Cells during Attacks 475
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- Oversupply of Screening Mammography Units: 489
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- Supply and Quality of Screening Mammography: 490
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M. Till and K.B. MacDonell

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- Chemotherapy for Advanced Thymoma: 520
Preliminary Results of a Intergroup Study
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- Chronic Lymphocytic Leukemia: New Insights 525
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K.A. Foon, K.R. Rai, and R.P. Gale

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- Procedural Skills of Practicing Gastroenterologists: A National Survey of 700 Members of the American College of Physicians
R.S. Wigton, L.L. Blank, H. Monsour, and J.A. Nicolas 540

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- Is the Supply of Mammography Machines Outstripping Need and Demand? An Economic Analysis
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- Transfusion of Blood Components from a Donor with Human T-Lymphotropic Virus Type II (HTLV-II) Infection
E. Donegan, M.P. Busch, J.A. Galleshaw, G.M. Shaw, J.W. Mosley, and the Transfusion Safety Study Group 555

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S.R. Cummings, W.S. Browner, D. Grady, and B. Ettinger

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Prognosis in Medically Stabilized Unstable Angina: Early Holter ST-Segment Monitoring Compared with PredischARGE Exercise Thallium Tomography 575

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J.R. Schelling, R.L. Howard, S.D. Winter, and S.L. Linas

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J. Chastre, J.Y. Fagon, P. Soler, A. Fichelle, M.C. Dombret, D. Hutten, A.J. Hance, and C. Gibert

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- The Soluble Interleukin-2 Receptor: Biology, Function, and Clinical Application 619
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- Endoscopy To Evaluate Gastrointestinal Bleeding in Marathon Runners 632
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- Perineal Reflex Sympathetic Dystrophy Treated with Bilateral Lumbar Sympathectomy 633
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- Clinical Practice Guidelines 645
R.H. Fletcher and S.W. Fletcher

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- Cassandra and the Clinician: Are Clinical Prediction Rules Changing the Practice of Medicine? 646
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- Treatment of Postmenopausal Osteoporosis with High Doses of Synthetic Calcitriol 649
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- Clinical Course of Anti-Neutrophil Cytoplasmic Autoantibody-associated Glomerulonephritis and Systemic Vasculitis 656
R.J. Falk, S. Hogan, T.S. Carey, J.C. Jennette, and The Glomerular Disease Collaborative Network

Oral corticosteroids with either oral or intravenous cyclophosphamide appear to be equally effective therapy for anti-neutrophil cytoplasmic autoantibody-associated glomerulonephritis.

- Clinical Prediction Rule for Pulmonary Infiltrates 664
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- Inefficacy and Proarrhythmic Effects of Flecainide and Encainide for Sustained Ventricular Tachycardia and Ventricular Fibrillation 671
J.M. Herre, C. Titus, M. Oeff, M. Eldar, M.R. Franz, J.C. Griffin, and M.M. Scheinman

Encainide and flecainide have a low efficacy rate and a high incidence of worsening of arrhythmia in patients with sustained ventricular arrhythmias, particularly when the condition is associated with poor left ventricular function.

- Regional Deposition of Aerosolized Pentamidine: Effects of Body Position and Breathing Pattern 677
M.I. Baskin, A.G. Abd, and J.S. Ilowite

Patients who receive aerosolized pentamidine may benefit from inhalation in the supine position; these results should be verified by a clinical study.

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- Exercise Thallium-201 Scintigraphy in the Diagnosis and Prognosis of Coronary Artery Disease 684
T.S. Kotler and G.A. Diamond

The marginal discriminant accuracy and cost effectiveness of exercise thallium scintigraphy compared with conventional clinical assessment and exercise electrocardiography remain controversial.

Position Paper

- Efficacy of Exercise Thallium-201 Scintigraphy in the Diagnosis and Prognosis of Coronary Artery Disease 703
American College of Physicians

Exercise thallium scintigraphy is preferable to exercise electrocardiography alone when the resting electrocardiogram (ECG) shows a nonspecific abnormality impairing ECG interpretation, or when information on the probable reversibility of apparently infarcted segments will help in deciding whether to revascularize.

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Applying clinical guidelines to health care serves both individual patients and society and helps to balance their respective needs for informed decision making and resource allocation.

- Medical Practice Guidelines: Current Activities and Future Directions 709
A.-M. Audet, S. Greenfield, and M. Field

More attention needs to be paid to implementation strategies for guidelines and to the scientific evaluation of their effectiveness in real clinical settings.

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- Intestinal Infarction after Intravenous Cocaine Administration 715
R.S. Freudenberger, M.S. Cappell, and D.A. Hutt

A 38-year-old male intravenous cocaine abuser developed acute mesenteric ischemia and infarction of the jejunum and ileum after intravenous self-administration of cocaine. The acute mesenteric ischemia was not associated with systemic hypotension or clinically detectable myocardial injury.

- Interferon- α for the Hypereosinophilic Syndrome 716
R.M. Zielinski and W.D. Lawrence

A patient who had persistent eosinophilia and clinical deterioration despite standard therapy was given human recombinant interferon- α , 8 million U/d. The patient had loss of splenomegaly, dramatic improvement in performance status, sense of well-being, and relief from congestive heart failure.

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- Loose Connections between Peer-Reviewed Clinical Journals and Clinical Practice 724
R.B. Haynes

Journals wishing to improve communication with practitioners should feature more rigorous studies, more clinical review articles, and fewer preliminary investigations.

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- Transmission of Human Immunodeficiency Virus Type 1 (HIV-1) by Exposure to Blood: Defining the Risk 729
R.S. Klein and G.H. Friedland

Because the inoculum of virus to which persons may be exposed varies according to stage of infection in the donor or patient and by the type of exposure, the approach to managing persons exposed to blood containing HIV should be individualized.

- Management of Small Abdominal Aortic Aneurysms 731
F.A. Lederle

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- Infection with Human Immunodeficiency Virus Type 1 (HIV-1) among Recipients of Antibody-Positive Blood Donations 733
E. Donegan, M. Stuart, J.C. Niland, H.S. Sacks, S.P. Azen, S.L. Dietrich, C. Faucett, M.A. Fletcher, S.H. Kleinman, E.A. Operskalski, H.A. Perkins, J. Pindyck, E.R. Schiff, D.P. Stites, P.A. Tomasulo, J.W. Mosley, and the Transfusion Safety Group

Transfusion of anti-HIV-1-positive blood infected 90% of recipients. The rate of progression to AIDS within the first 38 months after infection was similar to that reported for homosexual men and hemophiliacs.

- Risk for Occupational Transmission of Human Immunodeficiency Virus Type 1 (HIV-1) Associated with Clinical Exposures: A Prospective Evaluation 740
D.K. Henderson, B.J. Fahey, M. Willy, J.M. Schmitt, K. Carey, D.E. Koziol, H.C. Lane, J. Fedio, and A.J. Saah

The risk for HIV-1 transmission associated with a percutaneous exposure to blood from an HIV-1-infected patient is approximately 0.3% per exposure; the risks associated with occupational mucous membrane and cutaneous exposures are likely to be substantially smaller.

- Carotid Endarterectomy for Elderly Patients: Predicting Complications 747
R.H. Brook, R.E. Park, M.R. Chassin, J. Kosecoff, J. Keese, and D.H. Solomon

The effectiveness of carotid endarterectomy depends heavily on its complication rate. The surgeon's and the hospital's actual postoperative complication and death rates should be considered before the procedure is recommended.

- Low Bone Density Is an Etiologic Factor for Stress Fractures in Athletes 754
K.H. Myburgh, J. Hutchins, A.B. Fataar, S.F. Hough, and T.D. Noakes

In athletes with similar training habits, those with stress fractures are more likely to have lower bone density, lower dietary calcium intake, current menstrual irregularity, and lower oral contraceptive use.

- Risk for Colon Adenomas in Patients with Rectosigmoid Hyperplastic Polyps 760
D. Provenzale, J.W. Garrett, S.E. Condon, and R.S. Sandler

Distal hyperplastic polyps are not strong predictors of risk for proximal adenomas: finding a hyperplastic polyp during sigmoidoscopy does not justify doing a full colonoscopy to search for proximal adenomas. Because rectosigmoid adenomas are associated with proximal adenomas, however, small polyps seen during sigmoidoscopy should be biopsied to determine their type. Colonoscopy should be reserved for patients who are proved to have adenomas.

- Tumor Cell Lines Established In Vitro: An Independent Prognostic Factor for Survival in Non-Small-Cell Lung Cancer 764
H. Stevenson, A.F. Gazdar, R. Phelps, R.I. Linnoila, D.C. Ihde, B. Ghosh, T. Walsh, E.L. Woods, H. Oie, T. O'Connor, R. Makuch, B.S. Kramer, and J.L. Mulshine

Tumor cell-line establishment is a significant indicator of prognosis. In-vitro tumor growth is related to decreased patient survival because of the biologic aggressiveness of cancers giving rise to the tumor cell lines.

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Diagnosis and Treatment

- The Internist in the Management of Head and Neck Cancer 771
C. Jacobs

The work-up of patients with suspected unknown primary cancer presenting as adenopathy is detailed, and the physician is cautioned not to proceed immediately to open biopsy. To reduce mortality from head and neck cancers, the general internist must play a central role in prevention and early detection.

Review

- Colorectal Cancer: Evidence for Distinct Genetic Categories Based on Proximal or Distal Tumor Location 779
J.A. Bufl

Proximal tumors appear to represent a genetically more stable form of the disease and may arise through the same mechanisms that underlie inherited nonpolyposis colon cancer. Distal tumors show evidence of greater genetic instability and may develop through the same mechanisms that underlie polyposis colorectal cancer syndromes.

Position Paper

- Guidelines for the Physician Expert Witness 789
American College of Physicians

The American College of Physicians has issued guidelines for physician expert witnesses; the guidelines discuss the duty of physicians to serve as experts and provide recommended qualifications for physician experts.

Perspectives

- Economic Incentives for Ethical and Courteous Behavior in Medicine 790
E.L. Erde

Several current and proposed features of medical reimbursement are intended to alter the behavior of health care providers. The author proposes adding a structure to make physician behavior more ethical. The structure's design would be complex, but its core would be reminiscent of how a patron tips waiters.

- Rewarding Medicine: Good Doctors and Good Behavior 794
R.M. Arnold and L. Forrow

The author believes that we must re-examine professional development and practice so that patient care can become more humane rather than relying on simplistic "easy" solutions.

Brief Reports

- Severe Acetaminophen Toxicity in a Patient Receiving Isoniazid 799
R. Murphy, R. Swartz, and P.B. Watkins

The authors report the case of a woman who developed life-threatening hepatic and renal toxicity after ingesting not more than 11.5 g of acetaminophen and whose initial acetaminophen blood level was not in the usual toxic range. These data support the hypothesis that induction of P-4501IE1 may predispose patients to acetaminophen toxicity in the absence of glutathione depletion.

- Thoracentesis: A Safe Procedure in Mechanically Ventilated Patients 800

J.E. Godwin and S.A. Sahn

The risk for pneumothorax when doing thoracentesis on mechanically ventilated patients is similar to the risk reported for nonventilated patients.

Letters

- Annual Pelvic Examination 803
H.M. Dean; D.M. Eddy

- Corticosteroids for Pneumocystis Pneumonia 803
G.R. Mason; J.S.G. Montaner, M.T. Schechter, J. Rudy

- Diarrhea and AIDS 804
F.M. Hecht; J.F. Johanson and A. Sonnenberg

- Functional Asplenia after Bone Marrow Transplantation 805
P. Kalhs, P. Kier, and K. Lechner

- Gluten-Free Diet for AIDS-associated Enteropathy 806
A. Quiñones-Galvan, A. Lifshitz Guinzberg, G.J. Ruiz-Arguelles

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O.D. Bruno, M.A. Rossi, and L.N. Contreras

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Editorials

- Decision Analysis in the Evaluation of Revascularization 817
R.M. Gunnar

Analyses of the outcomes of therapy for coronary artery disease are confounded by the difficulty in defining the natural history of the disease without invasive intervention. Cost-benefit analysis that is based on these studies could be flawed.

- Advocacy for Methadone Treatment 818
R.G. Newman

Methadone maintenance treatment has been shown to reduce markedly the transmission of the human immunodeficiency virus by and among addicts. Physicians should demand an end to restrictions on the introduction and the necessary expansion of existing methadone maintenance treatment programs.

- On Being a Doctor 820
S.W. Fletcher and R.H. Fletcher

The editors introduce a new section for *Annals* that will devote space to discourse about the human experiences of physicians.

Articles

- Emergence of Recreational Drug Abuse as a Major Risk Factor for Stroke in Young Adults 821
D.A. Kaku and D.H. Lowenstein

Among patients younger than 35 years of age, drug abuse was the most commonly identified, potential predisposing condition for stroke (47%), and it was the only condition with a significantly elevated relative risk for stroke (11.7; 95% CI, 3.2 to 42.5).

- Sexual and Physical Abuse in Women with Functional or Organic Gastrointestinal Disorders 828
D.A. Drossman, J. Leserman, G. Nachman, Z. Li, H. Gluck, T.C. Toomey, and C.M. Mitchell

Sexual and physical abuse is a frequent element in the history of women from referral-based gastroenterology practices and is particularly common in those with functional gastrointestinal disorders.

- Ondansetron Compared with High-Dose Metoclopramide in Prophylaxis of Acute and Delayed Cisplatin-Induced Nausea and Vomiting: A Multicenter, Randomized, Double-Blind Crossover Study 834

P.H. De Mulder, C. Seynaeve, J.B. Vermorken, P.A. van Liessum, S. Mols-Jevdevic, E. Lane Allman, P. Beranek, and J. Verweij

Ondansetron is significantly more effective than metoclopramide in preventing acute nausea and vomiting. In the delayed phase, the results of both drugs were disappointing, although metoclopramide's effect on delayed nausea was superior.

- Serum and Tissue Magnesium Concentrations in Patients with Heart Failure and Serious Ventricular Arrhythmias 841

M.A. Ralston, M.R. Murnane, D.V. Unverferth, and C.V. Leier

In a general sample of ambulatory patients with heart failure, magnesium depletion in serum and tissue does not appear to occur more frequently in patients with serious ventricular arrhythmias when compared with patients without serious ventricular arrhythmias.

- Gallium Nitrate for Advanced Paget Disease of Bone: Effectiveness and Dose Response Analysis 847
R.P. Warrell Jr., B. Bosco, S. Weinerman, B. Levine, J. Lane, and R.S. Bockman

Short-term treatment with gallium nitrate can reduce biochemical parameters of disease activity in patients with advanced Paget disease of bone. Larger trials using low-dose intermittent treatment schedules are required to evaluate the safety and effectiveness of this therapy.

Diagnosis and Treatment

- Myocardial Revascularization for Chronic Stable Angina: Analysis of the Role of Percutaneous Transluminal Coronary Angioplasty Based on Data Available in 1989 852

J.B. Wong, F.A. Sonnenberg, D.N. Salem, and S.G. Pauker

The decision analytic model suggests that angioplasty is a reasonable alternative to bypass surgery in patients with favorable lesions, if angioplasty would provide a comparable degree of revascularization. Patients treated with angioplasty will have more revascularization procedures than will patients treated with bypass surgery, but both treatments will cost the same over the typical patient's lifetime.

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Review

- Effect of Human Immunodeficiency Virus (HIV) 872
on the Course of Syphilis and the Response to
Treatment

D.M. Musher, R.J. Hamill, and R.E. Baughn

Intensive therapy and follow-up observation are indicated for early syphilis in HIV-infected patients.

Abroad

- Cooperation between Health Professionals from the 882
United States and the Union of Soviet Socialist
Republics: Conclusions from a Trip to the Soviet
Union

P.B. Storey, J.G. Freymann, and D.M. Macfadyen

The authors describe many of the similarities and some of the differences between the two health systems and provide ideas for an exchange program in medical education.

Perspective

- Improving Outcomes of Analgesic Treatment: Is 885
Education Enough?

M.B. Max

Undertreatment of analgesic-responsive acute pain and chronic cancer pain is a problem; interventions are described to help improve pain treatment.

On Being a Doctor

- Living the Patient's Story 890

M.A. LaCombe

The author believes that physicians can become more "connected" with their patients by being more aware of their patients' personal histories.

Brief Reports

- A Steroid-Responsive Nephrotic Syndrome in a 892
Patient with Human Immunodeficiency Virus
(HIV) Infection

R.G. Appel and J. Neill

A 37-year-old man had HIV seropositivity, lymphadenopathy, and the nephrotic syndrome with normal renal function. The administration of corticosteroids resulted in remission of both the lymphadenopathy and the nephrotic syndrome.

- Corticosteroid-Associated Blue Toe Syndrome: 893

Role of Antiphospholipid Antibodies

G.E. Davies and D.A. Triplett

A patient with antiphospholipid antibodies and thrombocytopenia twice developed the blue toe syndrome after receiving treatment with prednisone to increase the platelet count. Patients with antiphospholipid antibodies and thrombocytopenia requiring treatment should be observed closely for vascular complications if receiving corticosteroid therapy.

Letters

- Screening for Thyroid Disease 896

J.M. Schechtman and L.G. Pawlson; A. Tal;

M. Helfand and L.M. Crapo

- Intravenous Immunoglobulins in Gram-Negative 897
Bacteremia

P.H. Chandrasekar; S.A. Berkman, M. Lee, and R.P. Gale

- Molecular Genetics of Chronic Myelogenous 898
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A.L. Hooberman; D.E. Epner and H.P. Koeffler

- Fluconazole-Induced Thrombocytopenia 899

A. Agarwal, V. Sakhuja, and K.S. Chugh

- Screening for Colorectal Cancer 899

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- Cigarette Smoking, Not Carbon Monoxide, Is the 900
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J.R. Webster, Jr.

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Editorials

- Predicting Type II Diabetes in Persons at Risk 905
K. Osei

In this issue, Warram and colleagues show that insulin resistance and hyperinsulinemia antecede and could predict the development of the disease in the offspring of patients with type II diabetes. Longitudinal studies to evaluate other predictive factors for type II diabetes would be invaluable.

- Expanding the Use of Thrombolytic Therapy for Acute Myocardial Infarction 907
J.W. Kennedy

Intravenous thrombolytic therapy is highly effective in patients with large Q-wave infarctions who receive such therapy early after symptom onset. It is beneficial for both elderly and young patients.

Articles

- Slow Glucose Removal Rate and Hyperinsulinemia Precede the Development of Type II Diabetes in the Offspring of Diabetic Parents 909

J.H. Warram, B.C. Martin, A.S. Krolewski, J.S. Soeldner, and C.R. Kahn

Insulin resistance might be the primary defect in the pathogenesis of type II diabetes.

- High Blood Cholesterol in Elderly Men and the Excess Risk for Coronary Heart Disease 916

S.M. Rubin, S. Sidney, D.M. Black, W.S. Browner, S.B. Hulley, and S.R. Cummings

The relative risk for mortality from coronary heart disease in men aged 60 to 79 years in the highest serum cholesterol group was 1.5 (95% CI, 1.2 to 2.0). However, because mortality from coronary heart disease increased with age, the excess risk for such mortality attributable to elevated serum cholesterol levels increased fivefold over these 20 years.

- Cardiovascular Effects of the Somatostatin Analog Octreotide in Acromegaly 921

P. Chanson, J. Timsit, C. Masquet, A. Warnet, P.-J. Guillausseau, P. Birman, A.G. Harris, and J. Lubetzk

A rapid and sustained cardiac improvement was observed in patients with acromegaly who received octreotide therapy.

- Persistent B19 Parvovirus Infection in Patients Infected with Human Immunodeficiency Virus Type 1 (HIV-1): A Treatable Cause of Anemia in AIDS 926

N. Frickhofen, J.L. Abkowitz, M. Safford, J.M. Berry, J. Antunez-de-Mayolo, A. Astrow, R. Cohen, I. Halperin, L. King, D. Mintzer, B. Cohen, and N.S. Young

B19 parvovirus is a remediable cause of severe chronic anemia in HIV-infected patients. Recognition and treatment of parvovirus infection in this population will prevent erythrocyte transfusion and should prevent transmission of the virus to other persons, including immunosuppressed persons and women of child-bearing age.

- Efficacy and Toxicity of Sodium Stibogluconate for Mucosal Leishmaniasis 934

E.D. Franke, S. Wignall, M.E. Cruz, E. Rosales, A.A. Tovar, C.M. Lucas, A. Llanos-Cuentas, and J.D. Berman

The only recommended treatment for mucosal leishmaniasis (antimony or sodium stibogluconate) is ineffective in patients with severe disease. Longer courses of therapy with antimony or with other antileishmanial agents alone or combined with antimony should be evaluated as initial therapy for this disease.

Diagnosis and Treatment

- Clarifying Confusion: The Confusion Assessment Method. A New Method for Detection of Delirium 941

S.K. Inouye, C.H. van Dyck, C.A. Alessi, S. Balkin, A.P. Siegel, and R.I. Horwitz

The authors developed a new standardized confusion assessment method (CAM) that enables nonpsychiatric clinicians to detect delirium quickly in high-risk patients.

Reviews

- Selection of Patients with Acute Myocardial Infarction for Thrombolytic Therapy 949

D.W.M. Muller and E.J. Topol

Few patients with myocardial infarction have been considered eligible for fibrinolytic therapy. Patients excluded from thrombolysis, however, continue to have a high rate of early mortality. The data suggest that the potential benefits of this treatment might be extended to selected high-risk subgroups.

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- Effect of Intravenous Streptokinase on Early Mortality in Patients with Suspected Acute Myocardial Infarction 961
A.S. Midgette, G.T. O'Connor, J.A. Baron, and J. Bell

Intravenous streptokinase clearly reduces early mortality in patients with suspected acute anterior myocardial infarction. For patients with suspected acute inferior infarction, the benefit of treatment is of smaller magnitude and is less certain.

Academia and Clinic

- Preoperative Screening: Value of Previous Tests 969
D.S. Macpherson, R. Snow, and R.P. Lofgren

Physicians evaluating patients preoperatively could safely substitute the "previous" test results (results of laboratory tests done at an earlier time) analyzed in this study for preoperative screening tests if the previous test results were normal and no obvious indication for retesting was present.

Position Paper

- Occupational and Environmental Medicine: The Internist's Role 974
American College of Physicians

Internists should be able to counsel their patients about risks posed by environmental agents and should refer patients appropriately if such counseling is beyond their sphere of competence.

Medicine and Public Issues

- Physician Shortage in Occupational and Environmental Medicine 983
J.S. Castorina and L. Rosenstock

The review identified a deficit of 3100 to 5500 physicians in this newly evolving specialty.

Brief Reports

- Effects of Different Calcium Antagonists on Proteinuria Associated with Diabetes Mellitus 987
B.K. Demarie and G.L. Bakris

Fourteen noninsulin-dependent, diabetic, hypertensive patients with proteinuria and mild renal insufficiency received either long-acting diltiazem or nifedipine; each group was then treated with the other drug. This small study confirms previous reports that nifedipine increases proteinuria and adversely affects renal function in diabetic persons, an effect that differs from that of the calcium antagonist, diltiazem.

- Bleomycin Sclerotherapy for Bilateral Pneumothoraces in a Patient with AIDS 988
O.W. Hnatiuk, T.A. Dillard, and C.N. Oster

The authors describe the case of a patient with AIDS and *Pneumocystis carinii* pneumonia whose course was complicated by bilateral pneumothoraces that were refractory to usual therapy. Effective nonsurgical control of the recurrent spontaneous pneumothoraces was achieved with bleomycin.

Letters

- Fluid Loading in Septic Shock 991
L. Ketai; F.P. Ognibene, R.E. Cunnion, and J.E. Parrillo

- Treatment of Cryptococcal Meningitis in AIDS 992
R.D. Wong and M.B. Goetz; R.A. Larsen and M.A. Leal

- Pentamidine for Pneumocystis Pneumonia 992
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- Beta-Blockers for Cocaine-Induced Coronary Vasoconstriction 993
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- Chronic Airflow Limitation and Obesity 993
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